# Automate from dashboard to website with MongoDB Atlas

# Step 1: Prepare a MongoDB Atlas database

**1. Create a MongoDB Atlas cluster:** for storing and managing data exported from the dashboard.

### 2. Data synchronization:

- Using Power BI data sources, export data to MongoDB.
- Data can be automatically updated and synchronized to MongoDB via Power BI scripts such as Power Query.
- 3. Enable the MongoDB Data API: Provides API access for websites.

# Step 2: Publish a Power BI dashboard

#### 1. Publish to Power BI Services:

- Publish a Power BI report or dashboard to the Power BI service.
- Set the data refresh frequency (such as hourly or daily) to keep the data up to date.

### 2. Enable dashboard embedding:

- Get the embed code in the Power BI service (by embedding it into a web page or portal function).
- Select the appropriate sharing permissions (public access or restricted access).

## Step 3: Automate data flow

#### 1. Integrate MongoDB with Power BI:

- Use Power BI's connectors to get data from MongoDB Atlas.
- Configure Power BI data set to automatically refresh to ensure that the dashboard reflects MongoDB data changes in real time.

#### 2. Real-time or batch updates:

- Use MongoDB Change Streams to realize real-time data flow.
- Or periodically push dashboard data to MongoDB through scheduled tasks.

### **Step 4: Website integration**

#### 1. Front-end embedded Power BI dashboard:

- Embed the dashboard into your website using the iframe embed code provided by Power BI.
- Make sure to follow Power BI's authentication and rights management when embedding.

#### 2. Back-end interaction with MongoDB:

• If the site needs to present additional data (such as data from MongoDB), develop an API interface for the front end to call.

# **Step 5: Security and rights management**

# 1. Power BI Authority:

- Configure access to the dashboard to ensure that only certain users or groups have access.
- Use Power BI's Row-Level Security (RLS) to control the range of data that users can see.

### 2. MongoDB Atlas permissions:

- Set refined user rights to ensure database security.
- If the front end of the site accesses the database directly, it is recommended to use read-only credentials.

## **Tools needed**

- Power BI Desktop and Power BI services
- MongoDB Atlas and Data API
- Data connectors (such as MongoDB's ODBC connector or Power Query)